

Triplet State Properties of *N*-mTEG[60]Fulleropyrrolidine

Mono and Bisadduct Derivatives

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Laser flash photolysis and pulse radiolysis techniques were used to determine triplet state properties of *N*-mTEG[60]fulleropyrrolidine mono and bisadduct derivatives (FP) (*m*TEG = $\text{CH}_2\text{CH}_2\text{OCH}_2\text{CH}_2\text{OCH}_2\text{CH}_2\text{OCH}_3$) in benzene. These properties include the triplet absorption spectra between 550 and 900 nm, quantum yields of triplet photosensitized singlet oxygen production (Φ_Δ) and triplet molar absorption coefficients (ϵ_T) with the assumption that the quantum yield of triplet formation (Φ_T) is equal to Φ_Δ . Our results demonstrate that the triplet

properties depend on the number of addends and on the addition pattern.